

## Debbie Beadle

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**From:** Evan Maxim  
**Sent:** Thursday, June 28, 2012 3:35 PM  
**To:** Debbie Beadle  
**Subject:** FW: BAS EHNSWB  
**Attachments:** BAS List 6-22-2005.pdf

**Categories:** Waiting Recall

EXHIBIT NO. 160

Public Comment

*Evan Maxim  
Senior Planner  
City of Sammamish  
425.295.0523*

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**From:** James Osgood [<mailto:james.osgood.officefinder@gmail.com>] **On Behalf Of** Jim Osgood  
**Sent:** Thursday, June 28, 2012 3:27 PM  
**To:** Evan Maxim  
**Cc:** Kamuron Gurol; Susan Cezar; Kathy Curry  
**Subject:** RE: BAS EHNSWB

Could you please add 2005 BAS Science reference list you sent me to the Public comments?

I would like to point out that most of the BAS related to EHNSWB was related to Landslide, stream bed erosion, shoreline, or maps. There was no section for Erosion Hazard Near Sensitive Water Bodies, only Erosion Hazard in general.

I believe the importance of this issue, the taking of property rights, warrants review and references specific to the EHNSWB

Thanks,

Jim

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**From:** Evan Maxim [<mailto:emaxim@ci.sammamish.wa.us>]  
**Sent:** Tuesday, June 12, 2012 2:10 PM  
**To:** [jim@officefinder.com](mailto:jim@officefinder.com)  
**Cc:** Kamuron Gurol; Susan Cezar; Kathy Curry  
**Subject:** RE: BAS EHNSWB

Jim,

Attached is a list of the BAS references from the 2005 ECA adoption.

The organization of this list is a bit misleading at times, as several of the documents cover several subjects – for example the Derek Booth documents are relevant to the EHNSWB regulations and stream protection standards (among other things).

Generally I would suggest reviewing the Derek Booth documentation and the East Sammamish Basin and Nonpoint Action Plan and East Sammamish Community plan documentation. Please note that Derek Booth also provided expert testimony to the City Council in December 2005.

Regards,

*Evan Maxim  
Senior Planner  
City of Sammamish  
425.295.0523*

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**From:** James Osgood [<mailto:james.osgood.officefinder@gmail.com>] **On Behalf Of** [jim@officefinder.com](mailto:jim@officefinder.com)  
**Sent:** Monday, June 11, 2012 8:39 AM  
**To:** Kamuron Gurol; Evan Maxim  
**Subject:** BAS EHNSWB

Could you direct me to the BAS used in the adoption of the EHNSWB No disturbance overlay in 2005, if any. Was BAS used or was it a policy decision to revise and adopt the King County code?

Thanks,

Jim

Please be aware that email communication with Council Members or City staff is a public record and is subject to disclosure upon request.

# City of Sammamish

## Best Available Science Resource List

June 22, 2005

The resources listed below are sources of technical information being used to help guide review of the City of Sammamish critical areas regulations. Critical areas include wetlands, fish and wildlife habitat, aquifer recharge areas, frequently flooded areas, and geologically hazardous areas. These regulations are being reviewed and updated to comply with a requirement of the state Growth Management Act.

### GENERAL

King County, 2004, Best Available Science Volume 1, A Review of Scientific Literature  
<http://www.metrokc.gov/ddes/cao/index.htm>.

King County, December 1990, Sensitive Areas Map Folio.

Sammamish, City of, 2003, Sammamish Comprehensive Plan  
<http://www.ci.sammamish.wa.us/ComprehensivePlan.aspx>.

Washington department of Community, Trade and Economic Development (CTED), 2003, Critical Areas Assistance Handbook; available along with additional state guidance at:  
<http://www.cted.wa.gov/growth>.

### GEOLOGICALLY HAZARDOUS AREAS

#### *Erosion Hazard Areas*

Baum, R. L., Chleborad, A. F. and Schuster, R. L., 1998, Landslides Triggered by the winter 1996-97 storms in the Puget lowland, Washington: U.S. Geological Survey Open-File Report 98-0239 <http://pubs.usgs.gov/of/1998/ofr-98-239/> and <http://landslides.usgs.gov/Wash-Or/PNW98.html>

Benda, L. and Dunne, T., 1997, Stochastic forcing of sediment supply to channel networks from landsliding and debris flow, Water Resources Research 33(12): 2849-2863.

Chleborad, A. F., 1994, Modeling and analysis of the 1949 Narrows landslide, Tacoma, Washington: Association of Engineering Geologists Bulletin, v. XXXI, no. 3, p. 305-327.

Chleborad, A. F., 2000, Preliminary Method for Anticipating the Occurrence of Precipitation-Induced Landslides in Seattle, Washington - Open-File Report 00-469, (U.S. Department of the Interior, U.S. Geological Survey: Washington DC).  
<http://pubs.usgs.gov/of/2000/ofr-00-0469/>

- Coe, J. A., Michael, J. A., Crovelli, R. A., and Savage, W. Z., 2000, Preliminary map showing landslide densities, mean recurrence intervals, and exceedance probabilities as determined from historic records, Seattle, Washington, U. S. Geological Survey Open File Report 00-0303, <http://pubs.usgs.gov/of/2000/ofr-00-0303/>
- Cox, J., MacDonald, K., and Rigert, T., 1994, Engineering and geotechnical techniques for shoreline erosion management in Puget Sound, Washington Department of Ecology, Coastal Erosion Management Series Vol 4, publication 94-77.
- Crovelli, R. A., 2000, Probability models for estimation of number and costs of landslides: U.S. Geological Survey Open File Report 00-249, 23 p. <http://pubs.usgs.gov/of/2000/ofr-00-0249/>
- Curran, T. A., 1965, Surficial geology of the Issaquah area, WA, Master of Science Thesis, University of Washington.
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- Dietrich, W. E., Wilson, C. J., Montgomery, D. R., *et al.*, 1992, Erosion thresholds and land surface morphology, *Geology* 20:675-679.
- Federal Emergency Management Agency, 1999, Executive summary: riverine erosion hazard areas, mapping feasibility study, Hazard Study Branch, Technical Services Division, at [http://www.fema.gov/mit/tsd/ft\\_reha.htm](http://www.fema.gov/mit/tsd/ft_reha.htm)
- Gerstel, W. J. and Brunengo, M. J., 1994, Mass wasting on the urban fringe, *Washington Geology* v. 22 no. 2 p.11-17.
- Gerstel, W. J., Brunengo, M. J., Lingley, W. S. Jr., Logan, R. L. and Walsh, T. J., 1997, Puget Sound bluffs: the where, why and when of landslides following the holiday 1996/97 storms, *Washington Geology* v. 25, no. 1, p.17-31.  
<http://www.dnr.wa.gov/geology/pugetls.htm>
- Harp, B., Chleborad, A., Schuester, R., *et al.*, 1996, Landslides and landslide hazards in Washington due to the February 5-9, 1996 storm, U.S. Geological Survey administrative report. [http://landslides.usgs.gov/html\\_files/nlic/Wash\\_hrp/Wash\\_hrp.pdf](http://landslides.usgs.gov/html_files/nlic/Wash_hrp/Wash_hrp.pdf)
- Highland, L. M., 2003, An Account of Preliminary Landslide Damage and Losses Resulting from the February 28, 2001, Nisqually, Washington, Earthquake: U.S. Geological Survey Open-File Report 03-0211, 48 p. <http://pubs.usgs.gov/of/2003/ofr-03-211/>
- Liesch, B. A., Price, C W, and Walters, K. L, 1963, Geology and ground water resources of northwest King Co, WA, Washington State Dept of Ecology WSB-20.
- Manson, C., 1998, Landslides of the Puget Lowland : a selected bibliography, Washington Department of Natural Resources Division of Geology and Earth Resources
- Miller, R. D., 1973, Map showing relative slope stability in part of west-central King County, Washington, US Geological Survey map I-852-A

Project Open Space, 1964, Report No, 9, Areas of Steep Slope in the Central Puget Sound Region, Puget Sound Governmental Conference, Puget Sound Regional Planning Council.

Project Open Space, 1964, Report No, 10, Landslide Hazardous Areas in the Central Puget Sound Region, Puget Sound Governmental Conference, Puget Sound Regional Planning Council.

Shannon and Wilson, Inc., 2000, Seattle landslide study, prepared for the City of Seattle, Seattle Public Utility, Seattle, WA.  
<http://www.ci.seattle.wa.us/DPD/Landslide/Study/ExecSum.asp>

Tubbs, D. W., 1974, Landslides in Seattle, Washington Department of Natural Resources, Division of Geology and Earth Resources, Information Circular 52.

Tubbs, D. W., 1975, Causes, mechanisms and prediction of landsliding in Seattle, Doctoral Dissertation, University of Washington, Seattle, WA.

Washington Department of Ecology, 1993, Slope stabilization and erosion control using vegetation: a manual of practice for coastal property owners, Shorelands and Coastal Zone Management Program publication 93-30. <http://www.ecy.wa.gov/biblio/9330.html>

Washington Department of Ecology, 1978-1980, Slope stability maps and Coastal Zone Atlas, Vol 7, King County, at <http://www.ecy.wa.gov/programs/sea/landslides/maps/maps.html>

### ***Seismic Hazard Areas***

Blakely, R. J., Wells, R. E., Waver, C. S. and Johnson, S. Y., 2002, Location, structure and seismicity of the Seattle fault zone, Washington: evidence from aeromagnetic anomalies, geologic mapping, and seismic-reflection data, Geological Society of America Bulletin v114 no 1 p169-177.

Chleborad, A. F., 1990, Ground failure associated with the Puget Sound region earthquakes of April 13, 1949, and April 29, 1965: U.S. Geological Survey Open-File Report 90-687, 140 p, and 5 oversize sheets.

### **FREQUENTLY FLOODED AREAS**

Federal Emergency Management Agency (FEMA) Region X Flood Damage Prevention Ordinance Washington Model (Revised 5/13/2004)

### **CRITICAL AQUIFER RECHARGE AREAS**

AGI Technologies, June 23, 1995, Wellhead Protection Program for Northeast Sammamish Plateau Sewer and Water District.

AGI Technologies, June 24, 1998, Wellhead Protection Program for Plateau and Cascade View Wells Sammamish Plateau Water and Sewer District. Prepared for the Sammamish Plateau Water and Sewer District.

- AGI Technologies, June 25, 1998, Sammamish Plateau Water and Sewer District Artificial Recharge Testing of the Plateau Aquifer System Zone IV (through Well 5), Phase III.
- Bear Creek Valley Ground Water Management Committee, King County Department of Natural Resources and Seattle-King County Department of Public Health, February 1999, Redmond-Bear Creek Valley Ground Water Management Plan.
- CH2M HILL and Carr/Associates, 1993, Snoqualmie and Issaquah Valley Aquifers Evaluation. Prepared for the East King County Regional Water Association.
- CH2M HILL, 2001, Sammamish Plateau Water and Sewer District 2001 Water Comprehensive Plan. Prepared for the Sammamish Water and Sewer District.  
<http://www.sammplat.wa.org/2001comprehensivewater.html>
- East King County Groundwater Advisory Committee, King County Department of Natural Resources, and Seattle-King County Department of Public Health, December 1998, East King County Ground Water Management Plan.
- Golder Associates, in association with Carr/Associates and The Barton Group, November 1993, Lower Issaquah Valley Wellhead Protection Plan. Volumes 1 and 2. Prepared for the Sammamish Plateau Water and Sewer District and the City of Issaquah.
- Golder Associates, *et al.*, May 1995, Lower Issaquah Valley Wellhead Protection Plan. Volume 3: Action Plan. Prepared for the Sammamish Plateau Water and Sewer District.
- Issaquah Creek Valley Groundwater Management Committee, King County Department of Natural Resources, and Seattle-King County Department of Public Health, March 1999, Issaquah Creek Valley Ground Water Management Plan.
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- Jones, M. A., 1999, Geologic framework for the Puget Sound aquifer system, Washington and British Columbia, US Geological Survey Professional Paper 1424-C.
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- Palmer, S. P., Evans, B. D., and Schasse, H. W., 2002, Liquefaction susceptibility of the greater eastside area, King County, WA.
- RH2, 1999, Northeast Sammamish Sewer & Water District 1999 Water Comprehensive Plan. Prepared for the Northeast Sammamish Sewer & Water District.
- Richardson, D., Birgham, J.W. and Madison, R.J., 1968, Water Resources of King County, Washington. Geological Survey Water-Supply Paper 1852. 74pp. 2 plates

- South King County Ground Water Advisory Committee (SKCGWAC), EES, Inc., Hart Crowser, Inc., Pacific Groundwater Group, and Robinson & Noble, Inc., 1989, South King County Groundwater Management Plan, Grant Number 1: Background Data Collection and Management Issues, Volumes I and II, June 1989.
- Thorsen, G. W., 1989, Landslide provinces in Washington, in Engineering Geology of Washington, Galster, RW, ed., Washington Department of Natural Resources, Division of Geology and Earth Resources Bulletin 78, vol. 1, p. 71-89.
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- Walsh, T.J., 1984, Geology and coal resources of central King County, Washington: Washington Division of Geology and Earth Resources, Open-File Report 84-3, scale 1:24,000.
- Washington State Department of Ecology, July 2000, Guidance Document for the Establishment of Critical Aquifer Recharge Area Ordinances. Publication #97-30 Version 4.0, 41 pages. <http://watershedpledge.org/pubs/97030.pdf>
- Washington State Department of Health (DOH), 1993, Washington State Proposed Wellhead Protection Program, Environmental Health Programs, June 1993.

#### **WETLANDS / FISH AND WILDLIFE HABITAT CONSERVATION AREAS**

- Adams, N.T., and Sullivan, K. 1989. The physics of forest stream heating: a simple model. Timber Fish and Wildlife, TFW-WQ3-90-007, pp. 2-39.
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- Bissonette, J.A., ed. 1997. *Wildlife and landscape ecology: effects of pattern and scale*. 410 pp.
- Bolton, S. and J. Shellberg. 2001. White Paper: Ecological Issues in Floodplains and Riparian Corridors. Washington Department of Fish and Wildlife. 88 pp.
- Booth, D.B. 1989. Run-off and stream-channel changes following urbanization in King County, Washington. Pages 639-650 in R. Gallster, editor. *Engineering Geology in Washington, Volume II: Washington Division of Geology and Earth Resources Bulletin 78*.

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- Booth, D. 1998. Are wild salmon runs sustainable in rehabilitated urban streams? In Abstracts from the Salmon in the City conference. Center for Urban Water Resources Management, University of Washington, Seattle, WA. 65 pp.
- Booth, D.B. 2000. Forest cover, impervious-surface area, and the mitigation of urbanization impacts in King County, Washington. *Prepared for King County Water and Land Use Division, by Center for Urban Water Resources Management, University of Washington, Seattle, WA. September 2000. 18 pp.*
- Booth, D.B., and P.C. Henshaw, 2001. Rates of channel erosion in small urban streams. Pages 17-38 in M.S. Wigmosta and S.J. Burges, editors. Land Use and Watersheds: human influences on hydrology and geomorphology in urban and forestry areas. Water and Science Application Volume 2. Amer. Geophysical Union, Washington, DC.
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